

Applicant: Nobumitsu TAKAOKA, et al.

Title: Computer System Management Program, System And Method

Attorney Docket No. 16869S-112800US

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FIG. 1

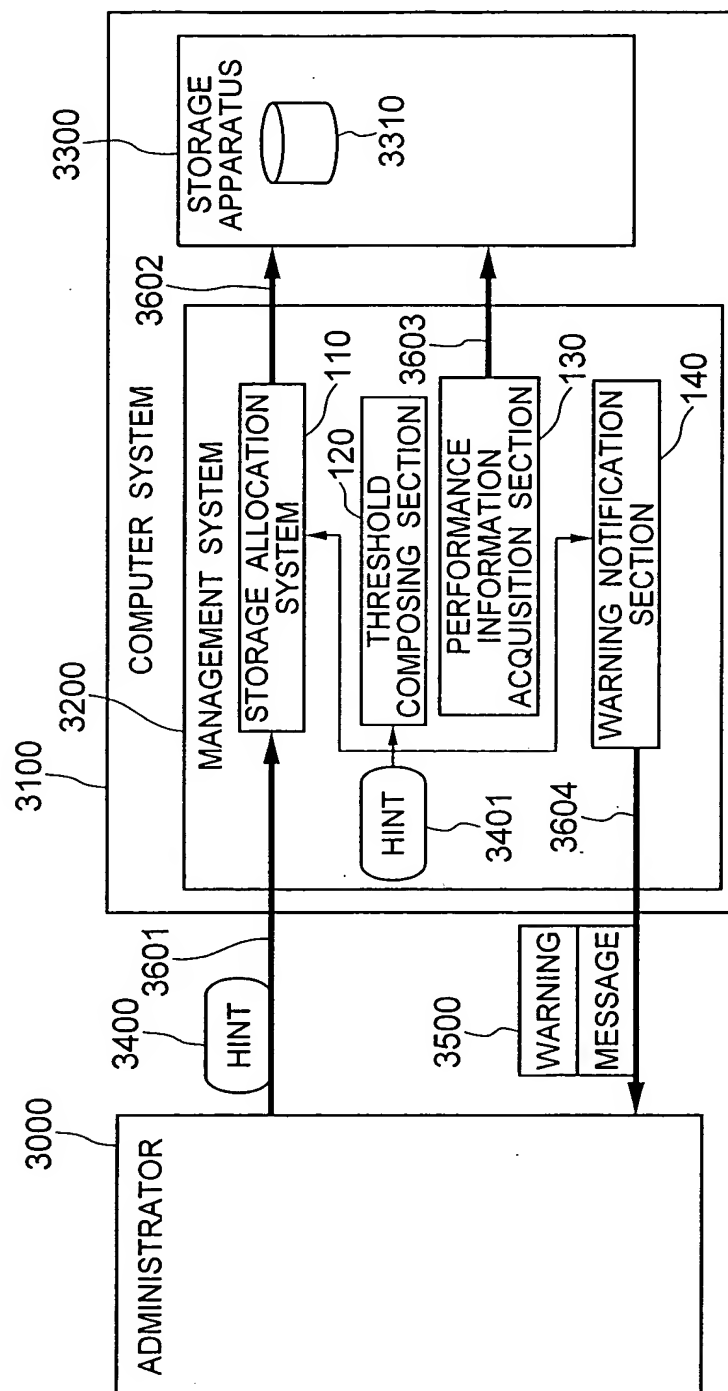
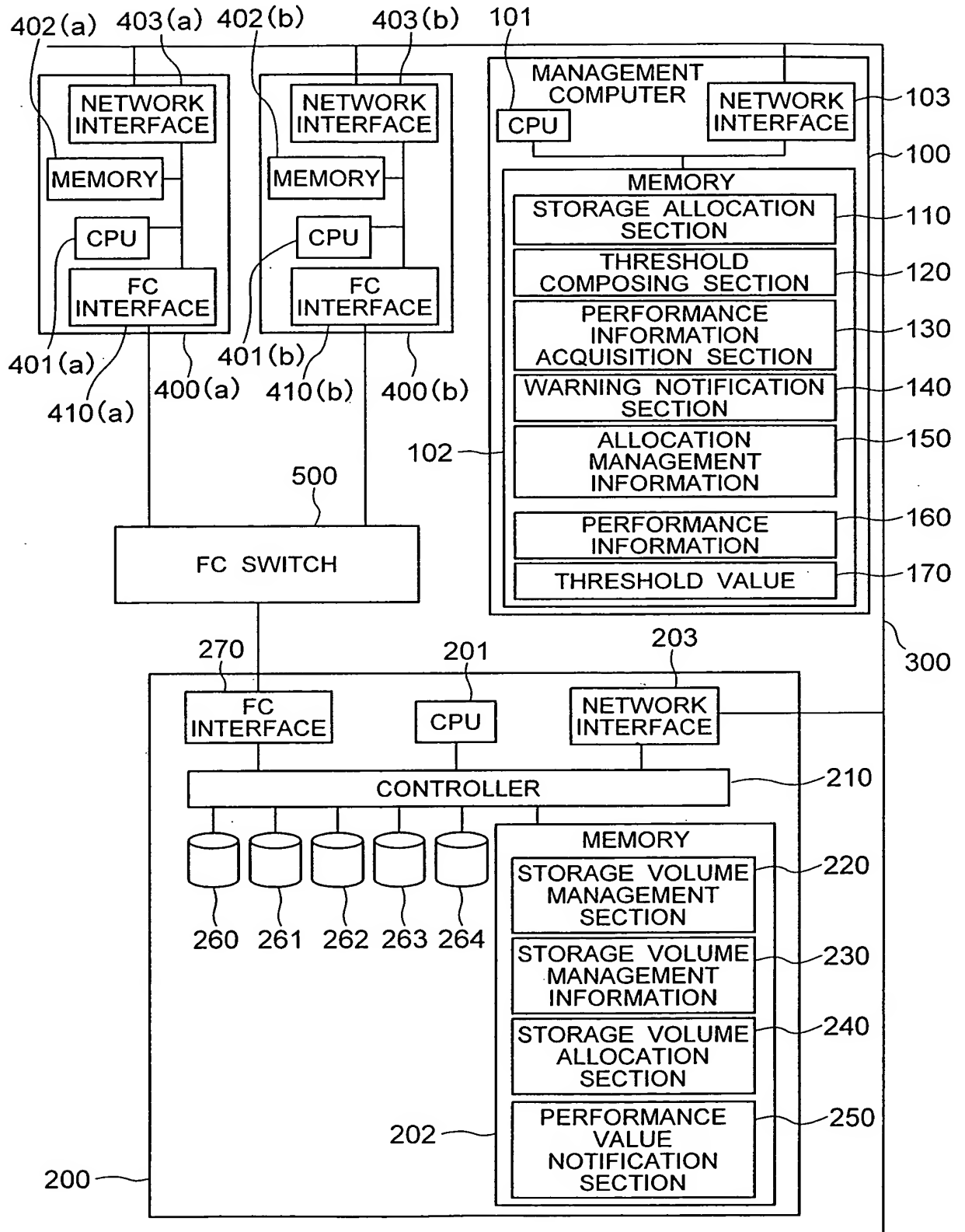


FIG. 2



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FIG. 3

230

REDUNDANT GROUP NUMBER	RAID LEVEL	HARD DISK ID
0	5	0
1	1	4
2	5	8
3	1	20
4	5	24

231

232

LOGICAL VOLUME NUMBER	REDUNDANT GROUP NUMBER	START NUMBER	END NUMBER
260	0	0	99
261	0	100	199
262	0	200	299
263	1	0	199
264	1	200	299

FIG. 4

0	0	0	0	LOGICAL VOLUME 260
...	...	...	...	
99	99	99	99	
100	100	100	100	LOGICAL VOLUME 261
...	...	...	...	
199	199	199	199	
200	200	200	200	LOGICAL VOLUME 262
...	...	...	...	
299	299	299	299	
...	...	...	...	

600 601 602 603

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FIG. 5

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STORAGE ID	LOGICAL VOLUME NUMBER	REDUNDANT GROUP NUMBER	R/W	I/O SIZE	TRANS	BAND
1.0.0.0	260	0	3	64	1	0
1.0.0.0	261	0	3	64	1	0
1.0.0.0	262	0	2	256	7	7
1.0.0.0	263	1	6	32	5	3
1.0.0.0	264	1	6	32	5	3

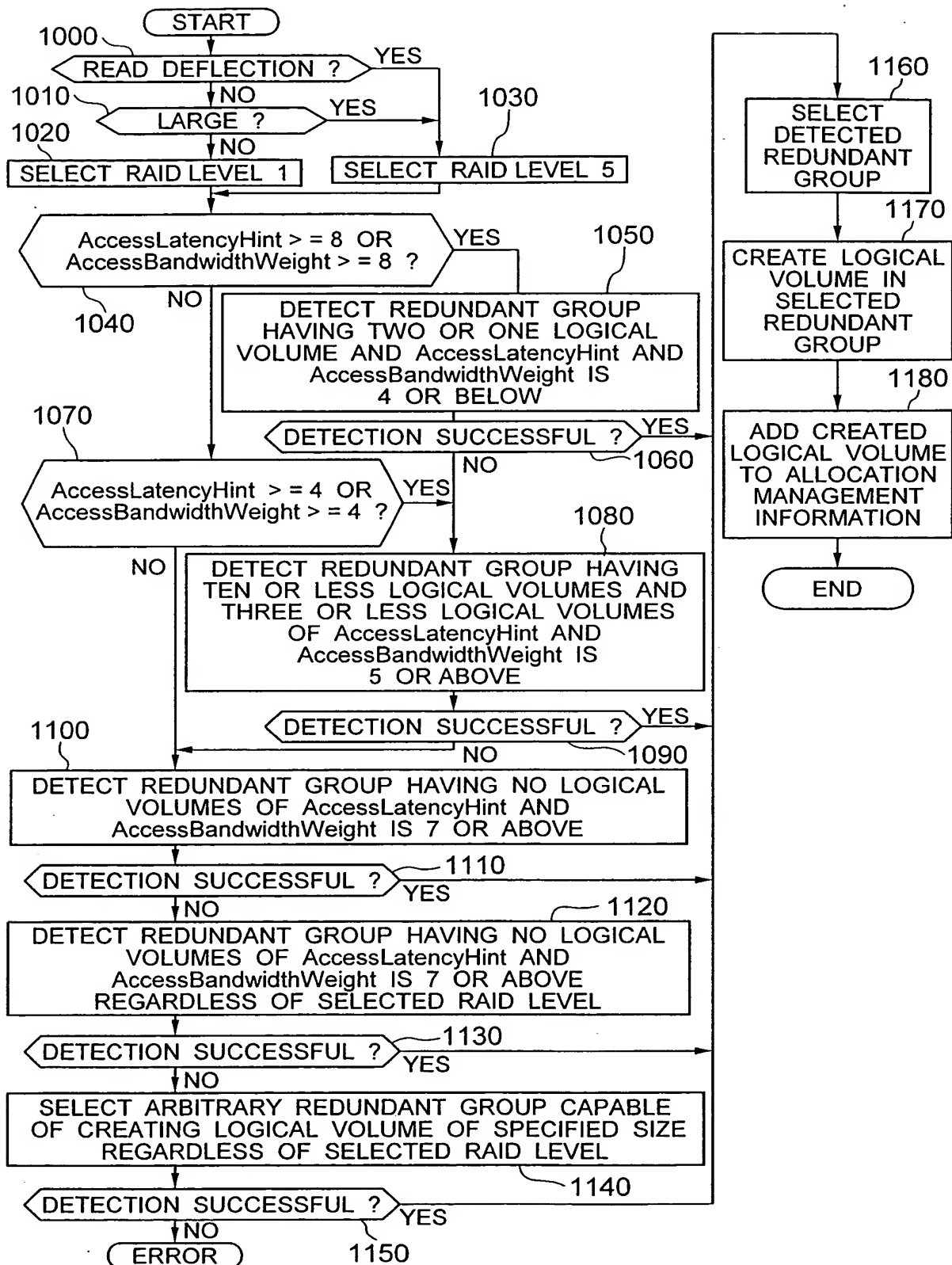
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FIG. 6



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FIG. 7

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STORAGE ID	LOGICAL VOLUME NUMBER	AVERAGE PROCESSING WAIT TIME	DATA TRANSFER AMOUNT	AVERAGE DATA TRANSFER AMOUNT PER PROCESSING WAIT TIME
1.0.0.0	260	0	1	1
1.0.0.0	261	0	1	1
1.0.0.0	262	100	20	20
1.0.0.0	263	300	5	5
1.0.0.0	264	300	5	5

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FIG. 8

801

0	0
1	1
2	0.9
3	0.8
4	0.7
5	0.6
6	0.5
7	0.4
8	0.3
9	0.2
10	0.1

802

0	0
1	1000
2	2000
3	4000
4	8000
5	10000
6	20000
7	30000
8	40000
9	50000
10	60000

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FIG. 9

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TIME STAMP	READ AVERAGE I/O SIZE	READ AVERAGE DATA TRANSFER AMOUNT	READ AVERAGE PROCESSING WAIT TIME	READ IOPS	WRITE AVERAGE I/O SIZE	WRITE AVERAGE DATA TRANSFER AMOUNT	WRITE AVERAGE PROCESSING WAIT TIME	WRITE IOPS
2003/6/30 17:00	64	1280	0.05	20	64	320	0.02	5
2003/6/30 17:15	64	256	0.08	4	64	128	0.02	2
2003/6/30 17:30	64	640	0.08	10	64	192	0.02	3
2003/6/30 17:45	64	204	0.2	3	64	640	0.02	10



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FIG. 10

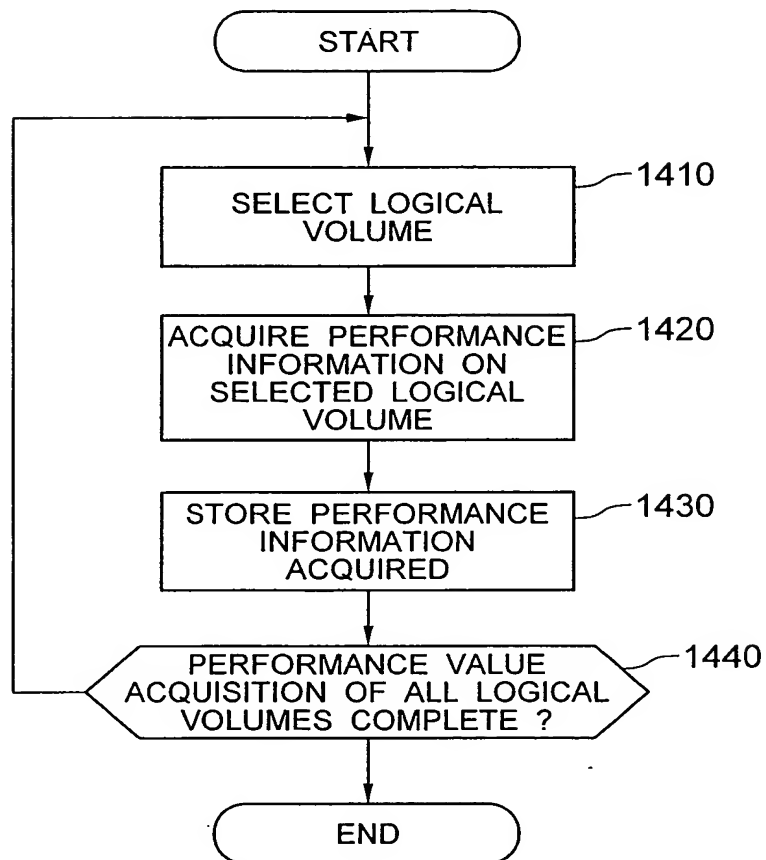
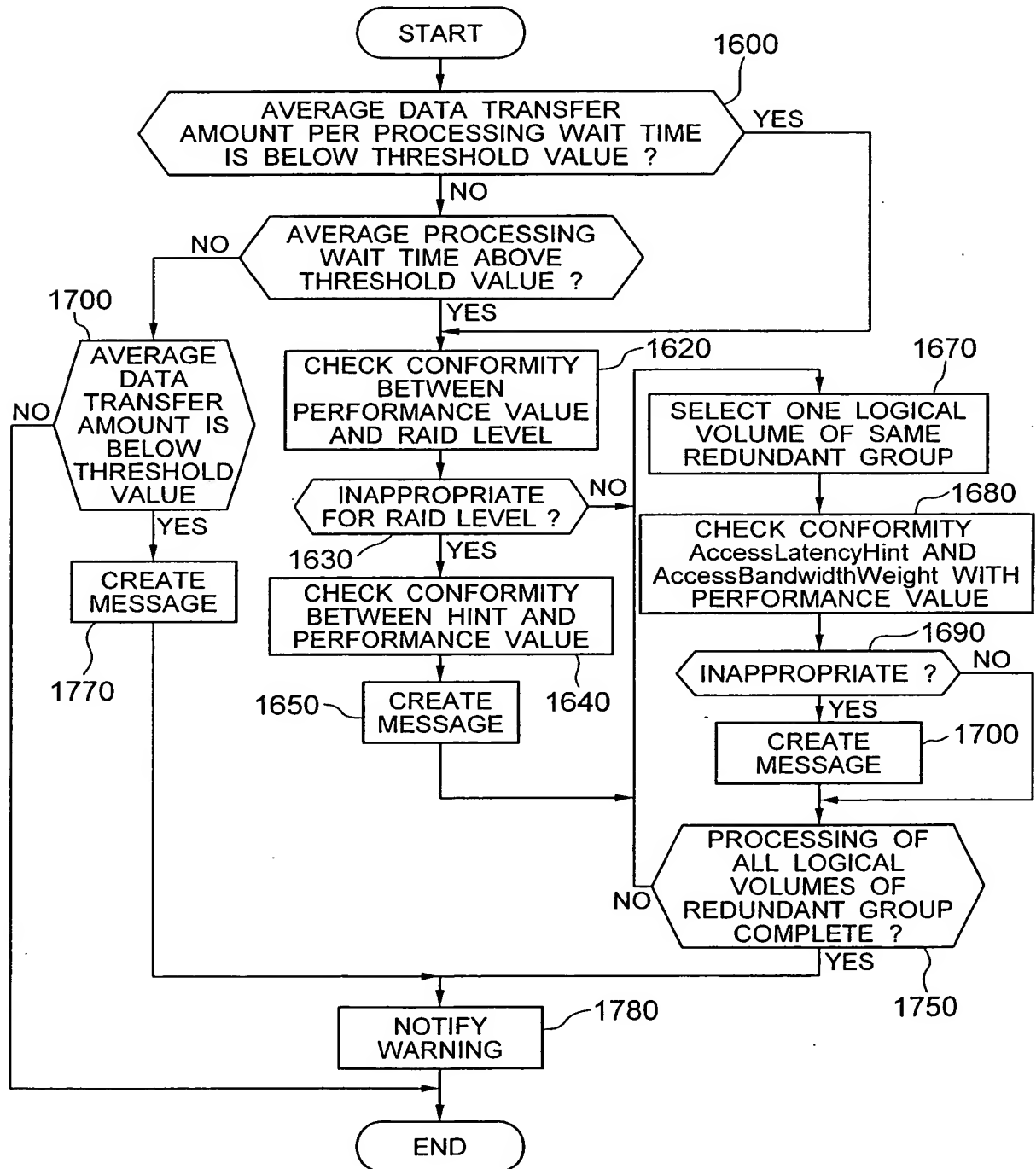


FIG. 11



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FIG. 12

